

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP080824\  
 Data File : BP021477.D  
 Acq On : 09 Aug 2024 19:37  
 Operator : RC/JU  
 Sample : P3329-05MEDL 4X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F7E07MEDL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/12/2024  
 Supervised By :mohammad ahmed 08/12/2024

Quant Time: Aug 09 23:17:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP071024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 08 18:23:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.616  | 152  | 152888   | 20.000 | ng/u1  | 0.02     |
| 20) Naphthalene-d8            | 10.369 | 136  | 666890   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.245 | 164  | 458056   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.075 | 188  | 993168   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.521 | 240  | 999479   | 20.000 | ng/u1  | 0.01     |
| 88) Perylene-d12              | 24.792 | 264  | 1123581  | 20.000 | ng/u1  | 0.01     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.164  | 96   | 1100     | 0.327  | ng/uL  | 0.01     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 6.993  | 99   | 8624m    | 0.692  | ng/u1  | 0.16     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.040  | 67   | 15818m   | 2.094  | ng/u1  | 0.08     |
| 11) 2-Chlorophenol-d4         | 7.269  | 132  | 17977m   | 1.750  | ng/u1  | 0.11     |
| 15) 4-Methylphenol-d8         | 8.493  | 113  | 20327m   | 1.964  | ng/u1  | 0.15     |
| 21) Nitrobenzene-d5           | 8.869  | 128  | 8711m    | 1.682  | ng/u1  | 0.09     |
| 24) 2-Nitrophenol-d4          | 9.551  | 143  | 8401m    | 1.417  | ng/u1  | 0.06     |
| 28) 2,4-Dichlorophenol-d3     | 10.204 | 165  | 20222m   | 1.886  | ng/u1  | 0.16     |
| 31) 4-Chloroaniline-d4        | 10.651 | 131  | 23634m   | 1.664  | ng/u1  | 0.11     |
| 46) Dimethylphthalate-d6      | 13.692 | 166  | 92850    | 2.788  | ng/u1  | 0.04     |
| 49) Acenaphthylene-d8         | 13.951 | 160  | 88871    | 2.377  | ng/u1  | 0.02     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d       | 0.000  | ng/u1  |          |
| 60) Fluorene-d10              | 15.292 | 176  | 73468    | 2.689  | ng/u1  | 0.03     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/u1  |          |
| 73) Anthracene-d10            | 17.198 | 188  | 132945   | 3.014  | ng/u1  | 0.02     |
| 81) Pyrene-d10                | 19.569 | 212  | 165367   | 2.676  | ng/u1  | 0.01     |
| 92) Benzo(a)pyrene-d12        | 24.580 | 264  | 161592   | 2.916  | ng/u1  | 0.02     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.422 | 128  | 1510286  | 43.054 | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.051 | 142  | 287032   | 11.920 | ng/u1  | 98       |
| 37) 1-Methylnaphthalene       | 12.275 | 142  | 133822   | 5.404  | ng/u1  | 97       |
| 43) 1,1'-Biphenyl             | 13.087 | 154  | 66712    | 1.993  | ng/u1  | 95       |
| 52) Acenaphthene              | 14.322 | 153  | 221441   | 7.881  | ng/u1  | 99       |
| 56) Dibenzofuran              | 14.681 | 168  | 228808   | 5.947  | ng/u1  | 96       |
| 61) Fluorene                  | 15.345 | 166  | 225209   | 7.173  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.122 | 178  | 1138462  | 22.097 | ng/u1  | 100      |
| 74) Anthracene                | 17.233 | 178  | 236203m  | 4.497  | ng/u1  |          |
| 77) Carbazole                 | 17.551 | 167  | 131571   | 3.064  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.222 | 202  | 705535   | 9.455  | ng/u1  | 98       |
| 82) Pyrene                    | 19.598 | 202  | 478161   | 6.297  | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.510 | 228  | 150160m  | 2.145  | ng/u1  |          |
| 87) Chrysene                  | 21.568 | 228  | 125281   | 1.926  | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 23.780 | 252  | 76328    | 1.119  | ng/u1  | 98       |
| -----                         |        |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

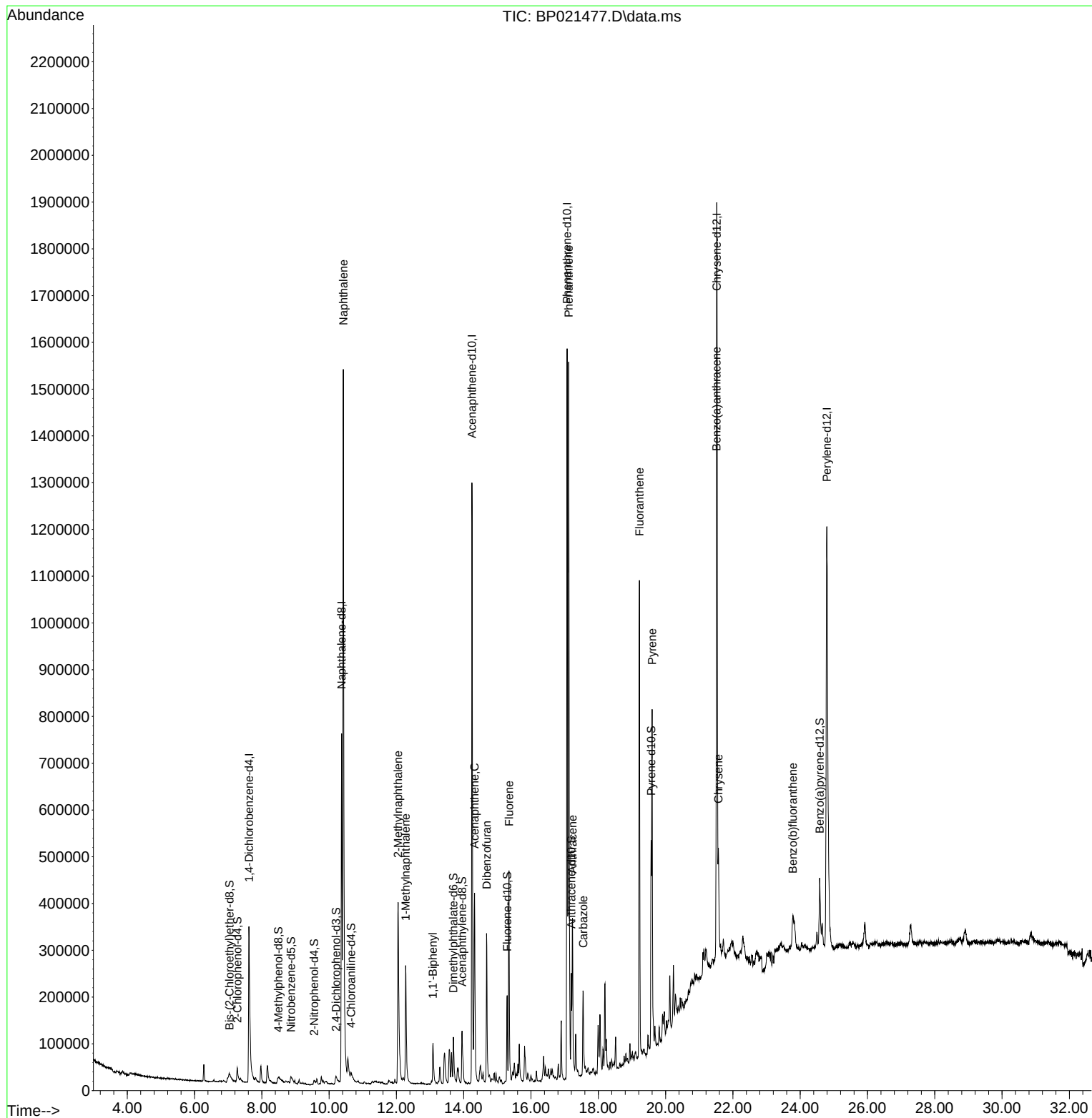
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP080824\  
Data File : BP021477.D  
Acq On : 09 Aug 2024 19:37  
Operator : RC/JU  
Sample : P3329-05MEDL 4X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

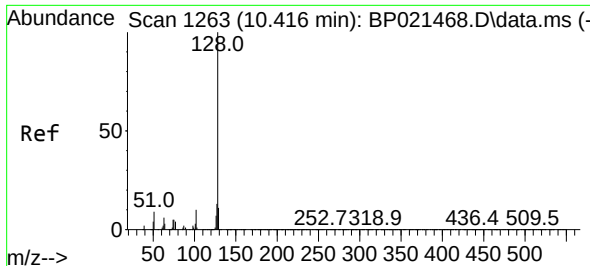
Instrument :  
BNA\_P  
ClientSampleId :  
F7E07MEDL

Quant Time: Aug 09 23:17:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP071024.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 08 18:23:21 2024  
Response via : Initial Calibration

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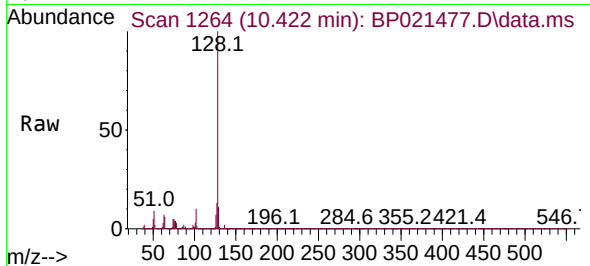
Reviewed By :Yogesh Patel 08/12/2024  
Supervised By :mohammad ahmed 08/12/2024





#30  
Naphthalene  
Concen: 43.054 ng/ul  
RT: 10.422 min Scan# 1541  
Delta R.T. -0.000 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37

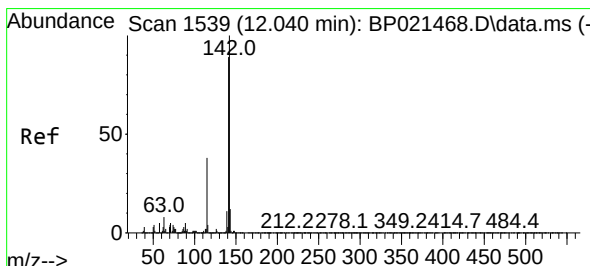
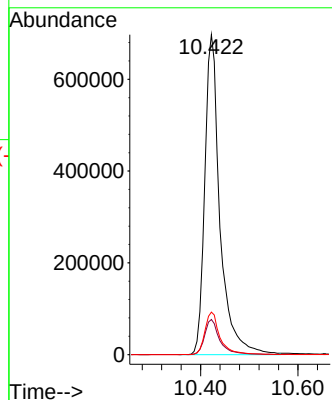
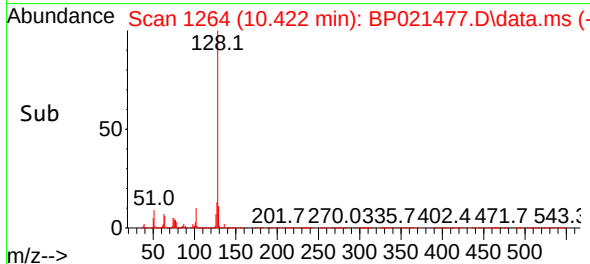
Instrument :  
BNA\_P  
ClientSampleId :  
F7E07MEDL



Tgt Ion:128 Resp: 1510286  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.6 13.0  
127 13.3 10.8 16.2

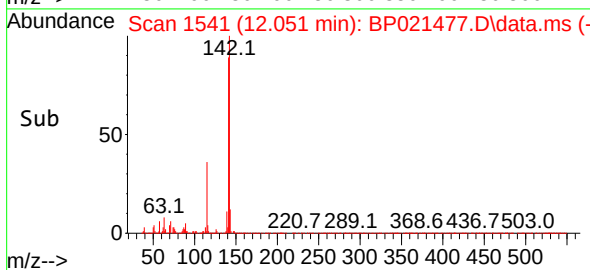
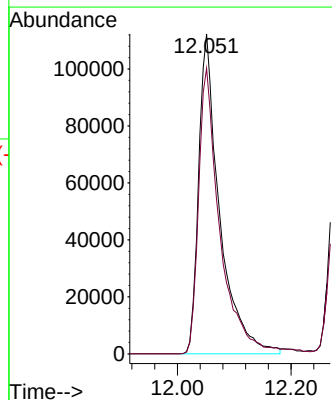
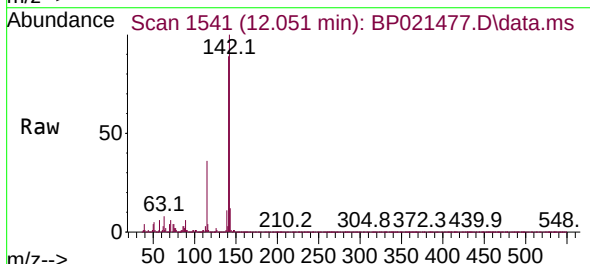
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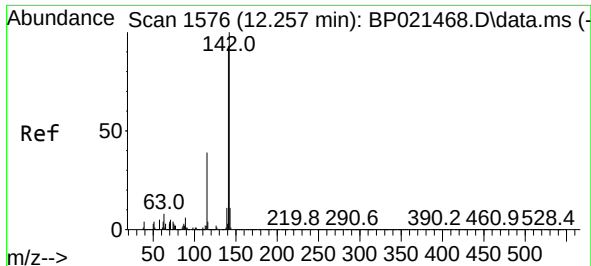
Reviewed By :Yogesh Patel 08/12/2024  
Supervised By :mohammad ahmed 08/12/2024



#36  
2-Methylnaphthalene  
Concen: 11.920 ng/ul  
RT: 12.051 min Scan# 1541  
Delta R.T. 0.012 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37

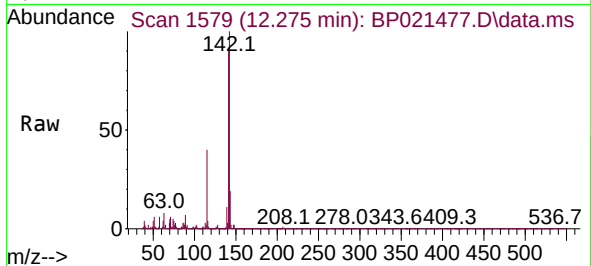
Tgt Ion:142 Resp: 287032  
Ion Ratio Lower Upper  
142 100  
141 89.2 72.6 108.8





#37  
1-Methylnaphthalene  
Concen: 5.404 ng/ul  
RT: 12.275 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37

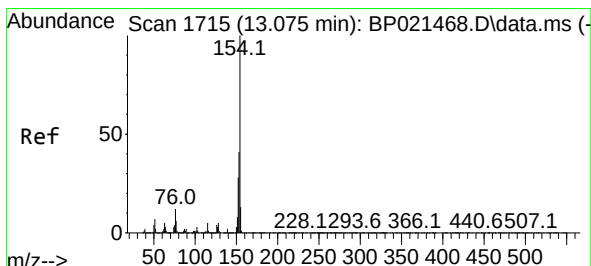
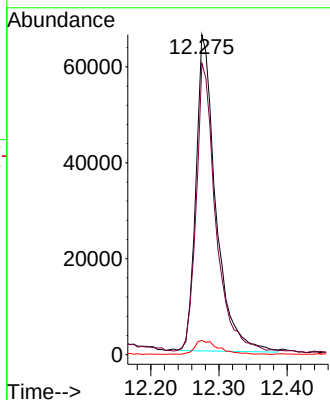
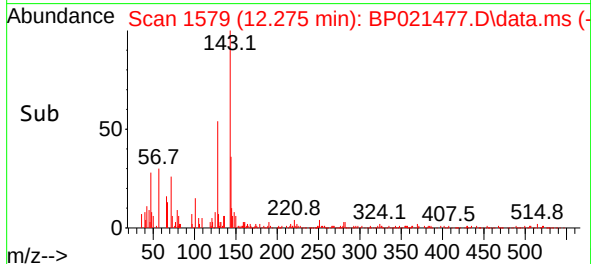
Instrument :  
BNA\_P  
ClientSampleId :  
F7E07MEDL



Tgt Ion:142 Resp: 133822  
Ion Ratio Lower Upper  
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141 91.0 75.0 112.6  
116 4.5 3.2 4.8

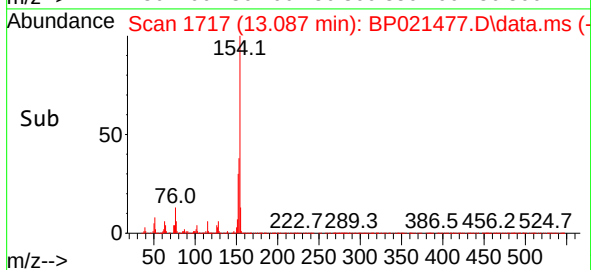
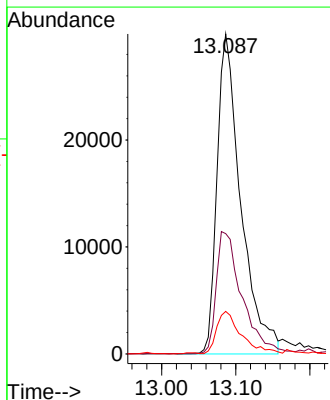
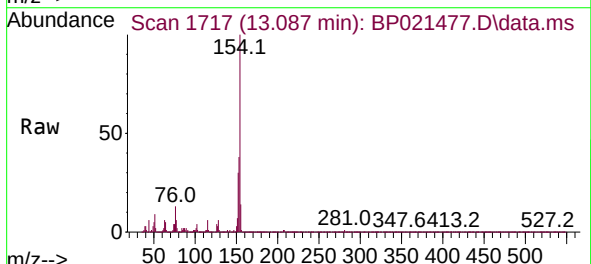
Manual Integrations  
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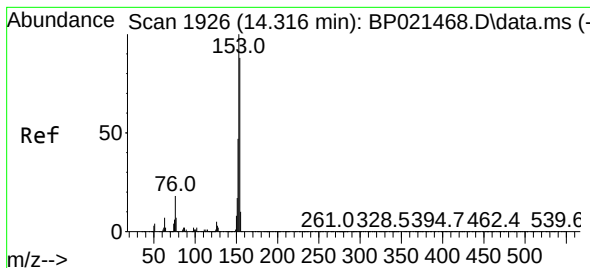
Reviewed By :Yogesh Patel 08/12/2024  
Supervised By :mohammad ahmed 08/12/2024



#43  
1,1'-Biphenyl  
Concen: 1.993 ng/ul  
RT: 13.087 min Scan# 1717  
Delta R.T. 0.029 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37

Tgt Ion:154 Resp: 66712  
Ion Ratio Lower Upper  
154 100  
153 37.6 32.7 49.1  
76 13.3 9.4 14.2





#52

Acenaphthene

Concen: 7.881 ng/ul

RT: 14.322 min Scan# 1926

Delta R.T. 0.012 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

Instrument :

BNA\_P

ClientSampleId :

F7E07MEDL

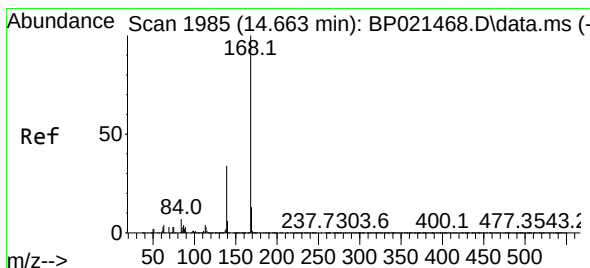
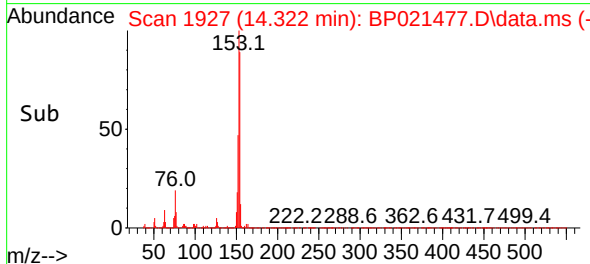
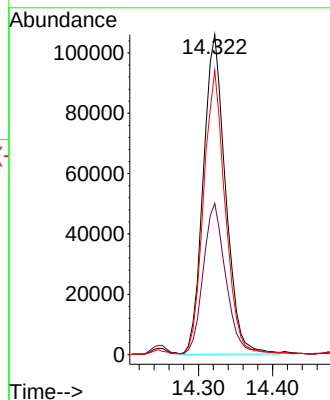
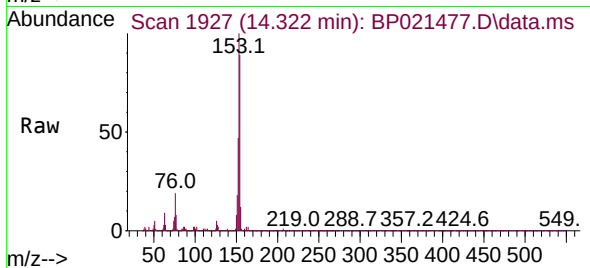
|             |             |
|-------------|-------------|
| Tgt Ion:153 | Resp: 22144 |
| Ion Ratio   | Lower Upper |
| 153 100     |             |
| 152 47.3    | 37.8 56.6   |
| 154 88.8    | 71.8 107.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 08/12/2024

Supervised By :mohammad ahmed 08/12/2024



#56

Dibenzofuran

Concen: 5.947 ng/ul

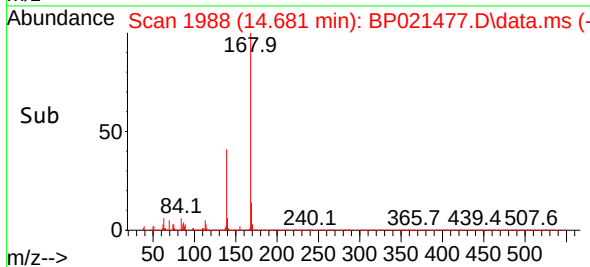
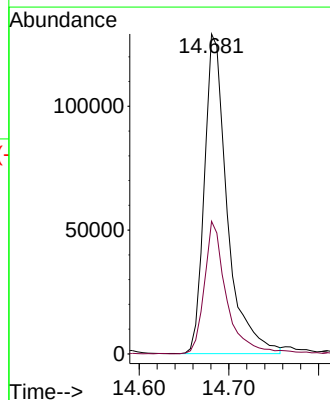
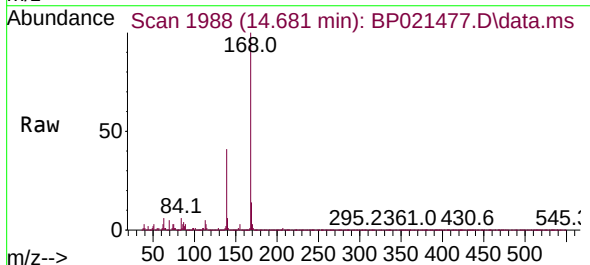
RT: 14.681 min Scan# 1988

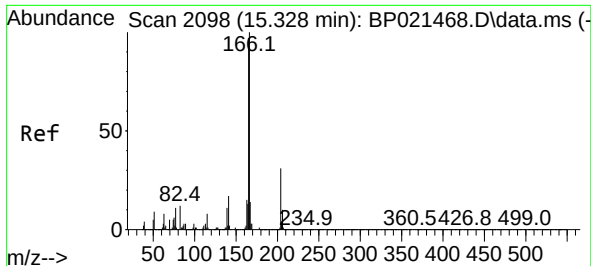
Delta R.T. 0.023 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

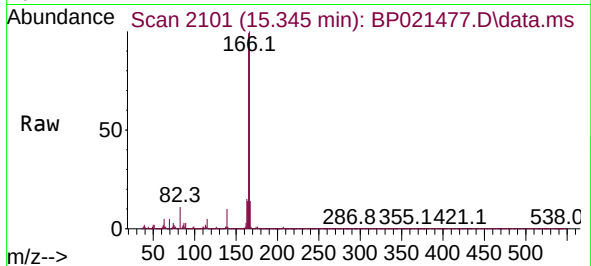
|             |              |
|-------------|--------------|
| Tgt Ion:168 | Resp: 228808 |
| Ion Ratio   | Lower Upper  |
| 168 100     |              |
| 139 41.4    | 31.1 46.7    |





#61  
Fluorene  
Concen: 7.173 ng/ul  
RT: 15.345 min Scan# 2101  
Delta R.T. 0.029 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37

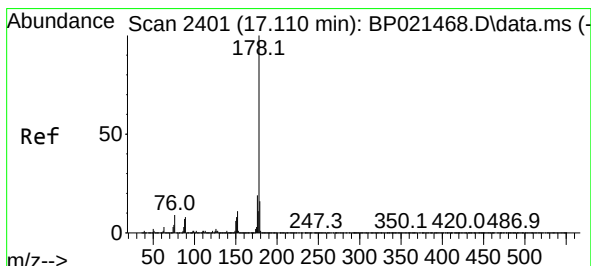
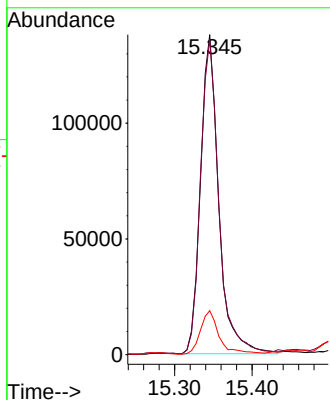
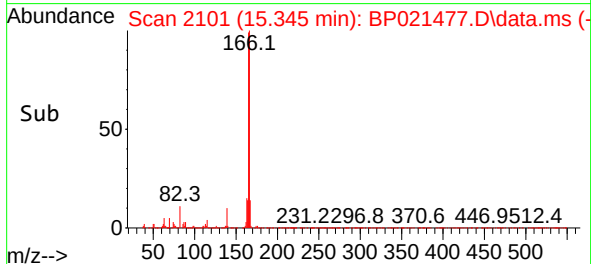
Instrument :  
BNA\_P  
ClientSampleId :  
F7E07MEDL



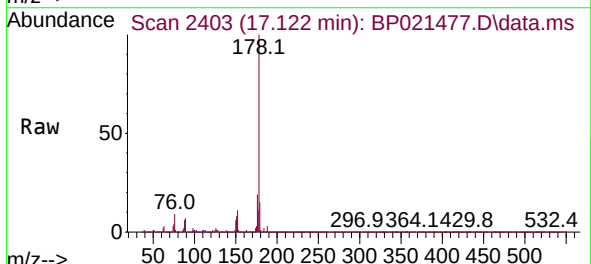
Tgt Ion:166 Resp: 225209  
Ion Ratio Lower Upper  
166 100  
165 98.5 78.1 117.1  
167 13.7 10.9 16.3

Manual Integrations  
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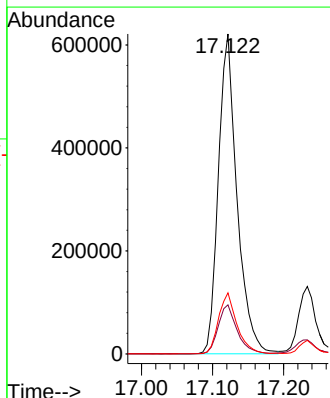
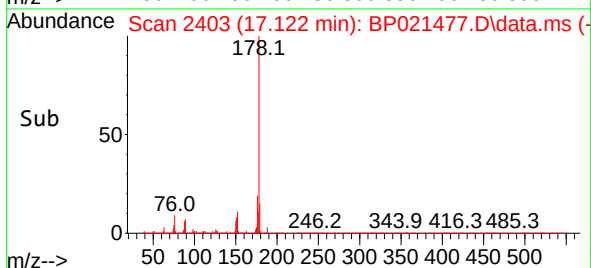
Reviewed By :Yogesh Patel 08/12/2024  
Supervised By :mohammad ahmed 08/12/2024

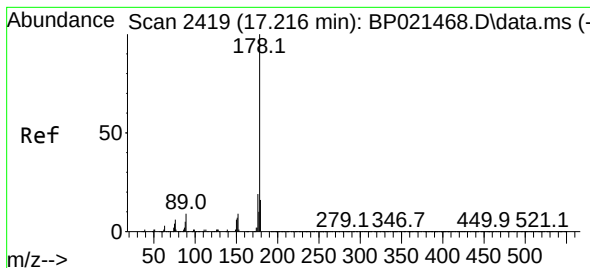


#72  
Phenanthrene  
Concen: 22.097 ng/ul  
RT: 17.122 min Scan# 2403  
Delta R.T. 0.006 min  
Lab File: BP021477.D  
Acq: 09 Aug 2024 19:37



Tgt Ion:178 Resp: 1138462  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.2 18.4  
176 19.1 15.0 22.4





#74

Anthracene

Concen: 4.497 ng/ul m

RT: 17.233 min Scan# 2419

Delta R.T. 0.023 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

Instrument :

BNP

ClientSampleId :

F7E07MEDL

Tgt Ion:178 Resp: 236203

Ion Ratio Lower Upper

178 100

179 20.7 12.5 18.7

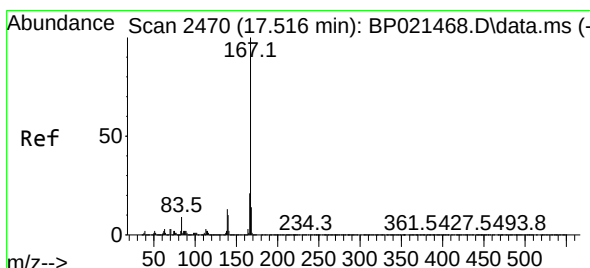
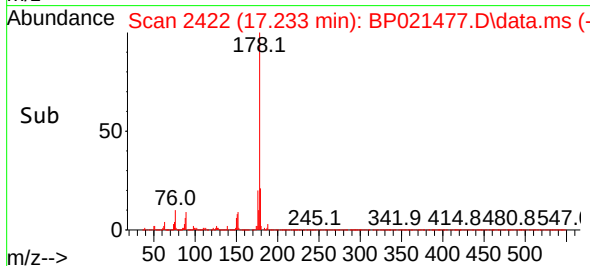
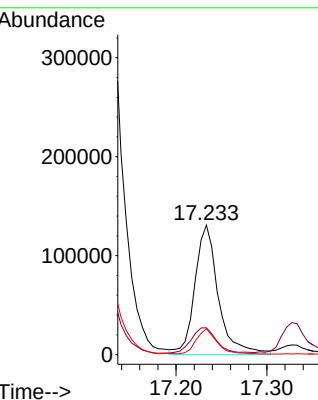
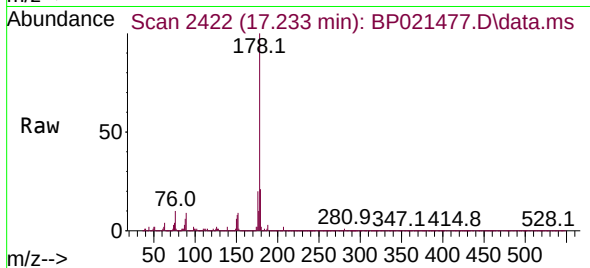
176 20.0 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2024

Supervised By :mohammad ahmed 08/12/2024



#77

Carbazole

Concen: 3.064 ng/ul

RT: 17.551 min Scan# 2476

Delta R.T. 0.035 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

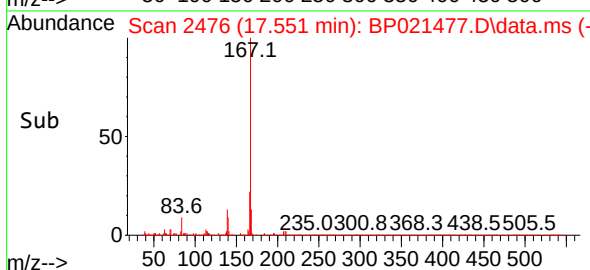
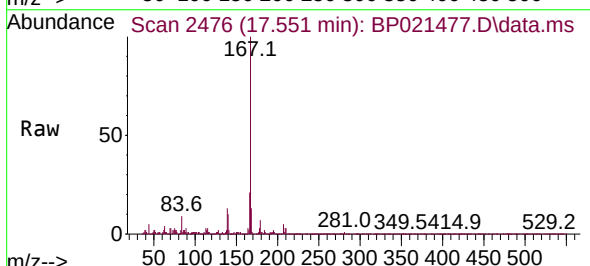
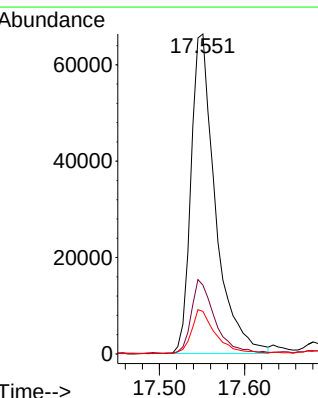
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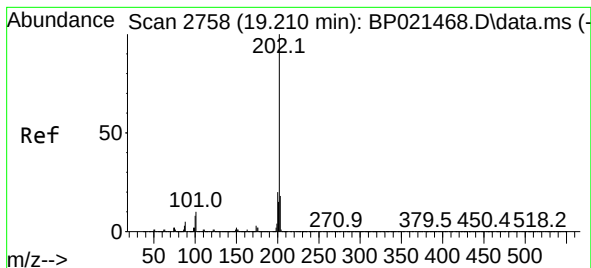
Ion Ratio Lower Upper

167 100

166 21.5 17.3 25.9

139 13.3 10.2 15.2





#80

Fluoranthene

Concen: 9.455 ng/ul

RT: 19.222 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

Instrument :

BNA\_P

ClientSampleId :

F7E07MEDL

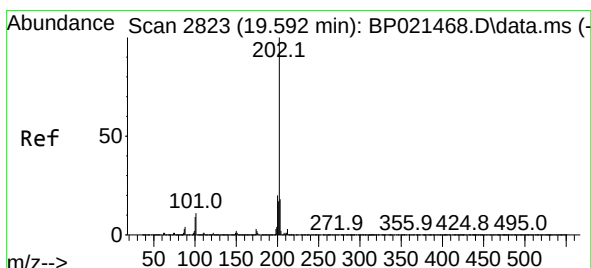
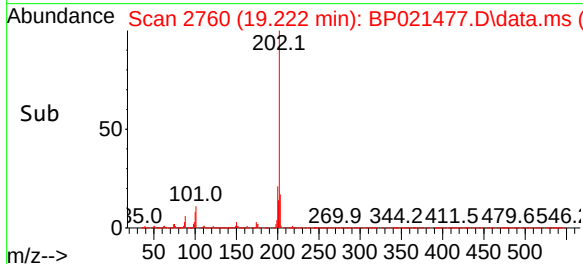
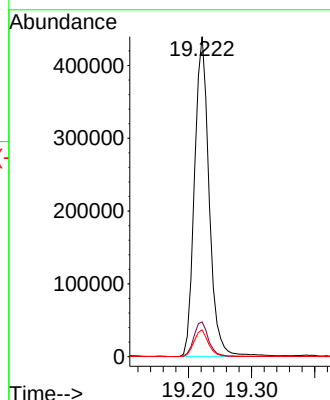
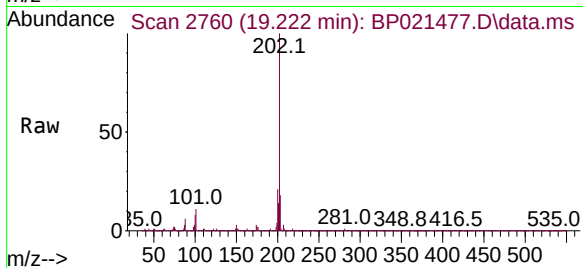
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 Ion Ratio Lower Upper  
 202 100  
 101 10.8 8.0 12.0  
 100 8.4 6.1 9.1

Manual Integrations

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#82

Pyrene

Concen: 6.297 ng/ul

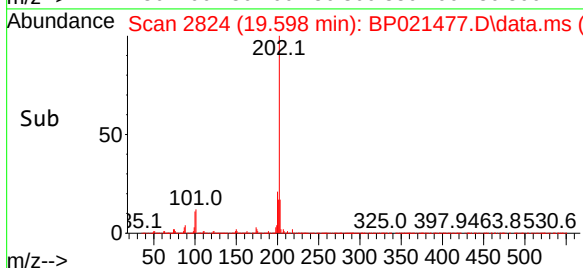
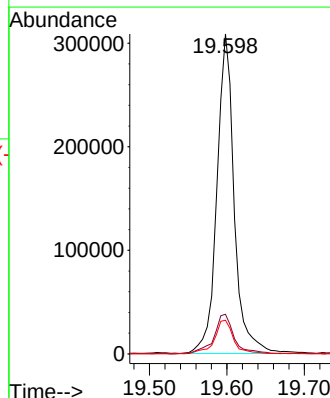
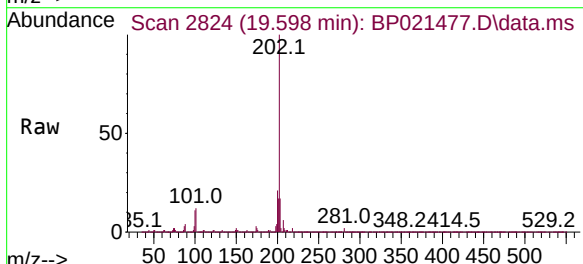
RT: 19.598 min Scan# 2824

Delta R.T. 0.006 min

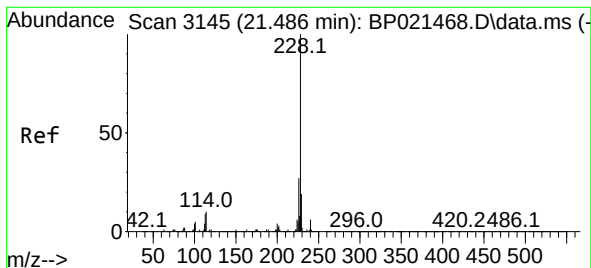
Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

Tgt Ion:202 Resp: 478161  
 Ion Ratio Lower Upper  
 202 100  
 101 12.4 9.4 14.2  
 100 10.6 7.8 11.6







#85

Benzo(a)anthracene

Concen: 2.145 ng/ul m

RT: 21.510 min Scan# 3149

Delta R.T. 0.018 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

Instrument :

BNP

ClientSampleId :

F7E07MEDL

Tgt Ion:228 Resp: 150160

Ion Ratio Lower Upper

228 100

229 27.6 15.5 23.3

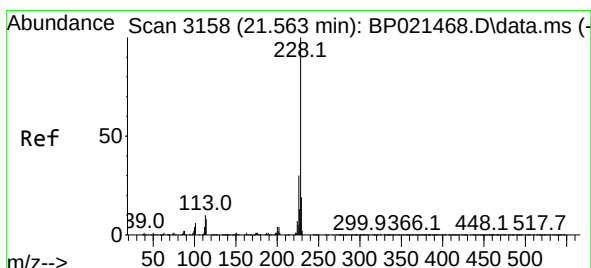
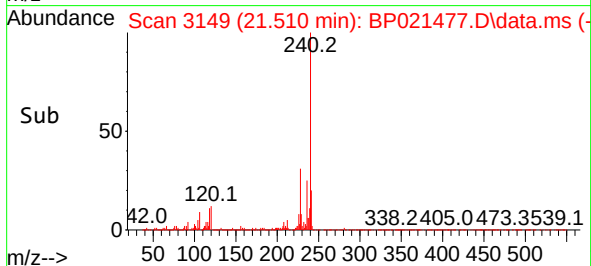
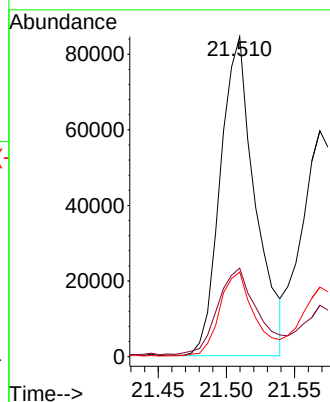
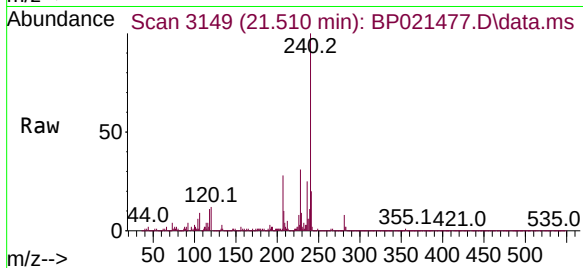
226 26.4 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2024

Supervised By :mohammad ahmed 08/12/2024



#87

Chrysene

Concen: 1.926 ng/ul

RT: 21.568 min Scan# 3159

Delta R.T. 0.006 min

Lab File: BP021477.D

Acq: 09 Aug 2024 19:37

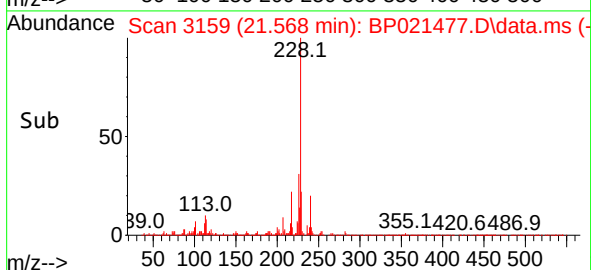
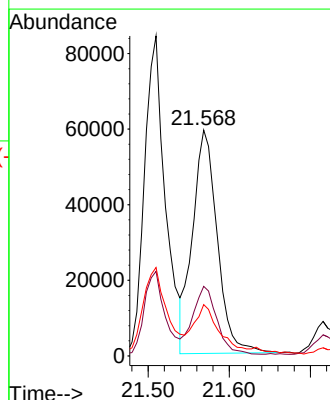
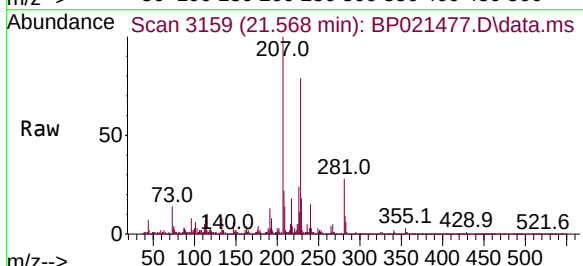
Tgt Ion:228 Resp: 125281

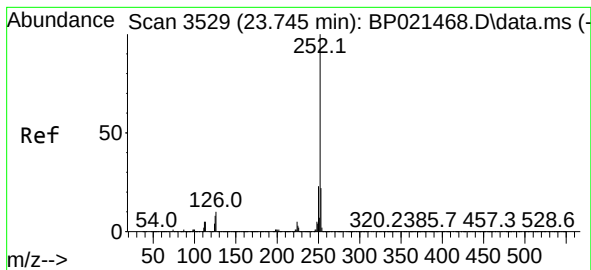
Ion Ratio Lower Upper

228 100

226 30.8 23.6 35.4

229 22.7 15.5 23.3





#90

Benzo(b)fluoranthene

Concen: 1.119 ng/ul

RT: 23.780 min Scan# 3535

Delta R.T. 0.029 min

Lab File: BP021477.D

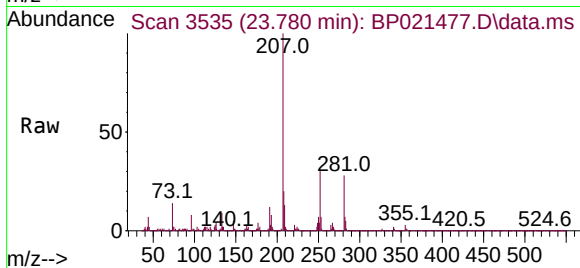
Acq: 09 Aug 2024 19:37

Instrument :

BNA\_P

ClientSampleId :

F7E07MEDL



Tgt Ion:252 Resp: 76328

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

125 10.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/12/2024

Supervised By :mohammad ahmed 08/12/2024

